Which of the following has the same slope or rate of change as the graph of the linear equation $x = -5$?

A) $(-5,2),(-5,0)$

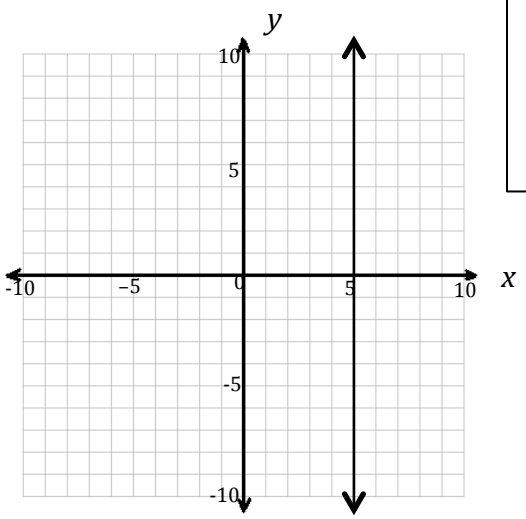
B) $5x - 3y = 15$

C) $y = -5x - 12$

D)

x	y
3	10
3	-2
3	0
3	5

E)



Scoring

2 points: If selected only A, D, & E
1 point: Selected either D or E, with any other response.
0 points: D & E are not selected

Key and Distractor Analysis

A. Identifies both *x* coordinates as solutions to the function.
B. Sees the slope as the *x*-coordinate and identifies it with the *y*-intercept.
C. Sees the slope as the *x*-coordinate.
D. Understands that *x* does not change and the slope is undefined.
E. Understands that a vertical line has an undefined slope.

Functions 8.F

Use functions to model relationships between quantities.

4. Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two (x,y) values, including reading these from a table or from a graph, interpret the rate of change and initial value of a linear function in terms of the situation it models, and in terms of its graph or a table of values.